

From: [McAteer, Mike](#)
To: [Moore, Gary](#)
Subject: FW: Hood Mercury Response.... shoes
Date: Thursday, March 27, 2014 9:20:00 PM

Just some thoughts here on mercury accumulation on footwear.... I may be out in left field....



From: McAteer, Mike
Sent: Thursday, March 27, 2014 9:18 PM
To: 'Parnell, Heth'
Cc: 'Robards, Paisley'
Subject: Hood Mercury Response.... shoes

Heth and Paisley:

Maybe it's the lack of sleep, but, I just had a thought about the shoes and the mercury accumulation at Hood JH that had not occurred to me earlier..... I've been thinking for the last few days that the big risk to students/staff is from the accumulation of mercury on their shoes after spending a day (8 hours) in the school then they take their respective shoes home and inhale the mercury vapors from their shoes all night assuming their shoes are in their bedrooms..... what I had not thought about is the cumulative mercury build up on multiple shoes for each student/teacher in **each classroom all day long**.... In other words:

25 students/1 teacher = 26 pairs of shoes X 3 ug/m3 (low end of acceptable level) on each shoe X 8 class hours per day

So, after being exposed to the surface area of 26 pairs of shoes at 3 ug/m3 for up to 8 hours a day you then must ADD about 8 hours of exposure to one pair of shoes all night long. It's possible the night time exposure would not be as big of risk as the day time exposure!

I was just thinking about the levels on the one pair of shoes at the home each night.... For some reason, I was forgetting about the all day exposure to all the shoes in each classroom!

I realize there are all sorts of factors that would need to be accounted for.... For example, varying levels of mercury on shoes (could be much higher than 3 ug/m3 if we had not done extra assessment and cleanup); varying levels on floor surfaces; number of students/staff in each room (hundreds of



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students/staff in cafeteria versus 25 in a classroom); size of the room; temperatures.... Etc, etc.

I am interested in your feedback on this.... Was it just me that was focused on the shoe exposure at home and not thinking about the day time exposure?

This fact makes me all the more concerned about making sure the rooms/hallways are well below the 3 ug/m3 level. Perhaps a risk assessment might be worth assembling for all this?

 The logo is circular with a blue border. Inside the border, the words "UNITED STATES" are at the top and "ENVIRONMENTAL PROTECTION AGENCY" are at the bottom, separated by two stars. In the center, there is a white circle containing the EPA logo (a stylized flower/leaf). Below this, the text "REGION-SIX" is written in blue, and "EMERGENCY RESPONSE TEAM" is written in white on a red background.	<p>Mike McAteer Federal On-Scene Coordinator U.S. EPA 1445 Ross Ave Suite 1200 (6SF-PE) Dallas, Texas 75202 (214) 354 9371 (mobile) (214) 665 7157 (office) mcateer.mike@epa.gov</p>
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